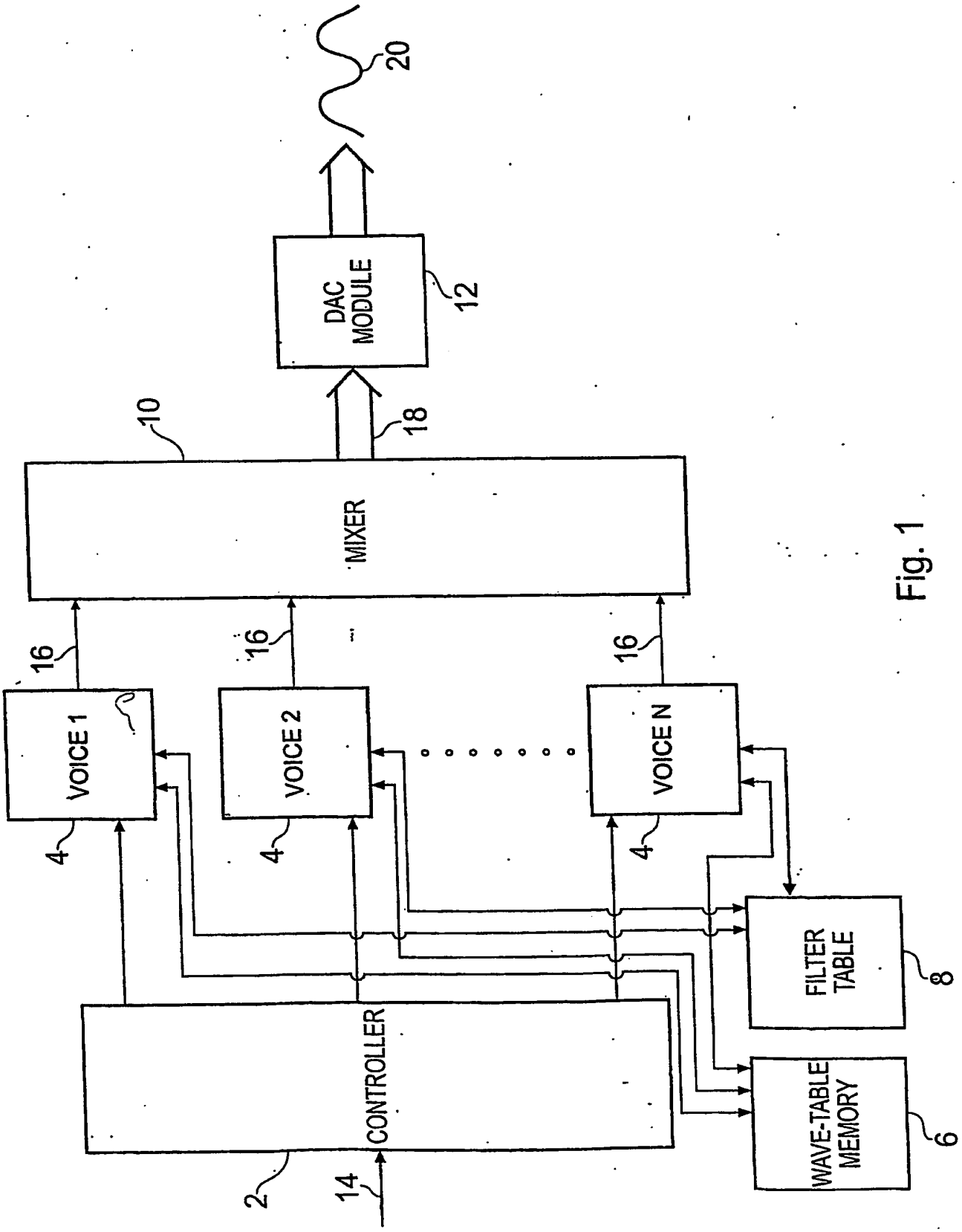
20
DAC MODULE
12
10
18
MIXER
16
16
16
VOICE 1
VOICE 2
VOICE N
4
4
4
FILTER TABLE
8
CONTROLLER
WAVE-TABLE MEMORY
6
2
14

Fig. 1

ART 34 AMDT

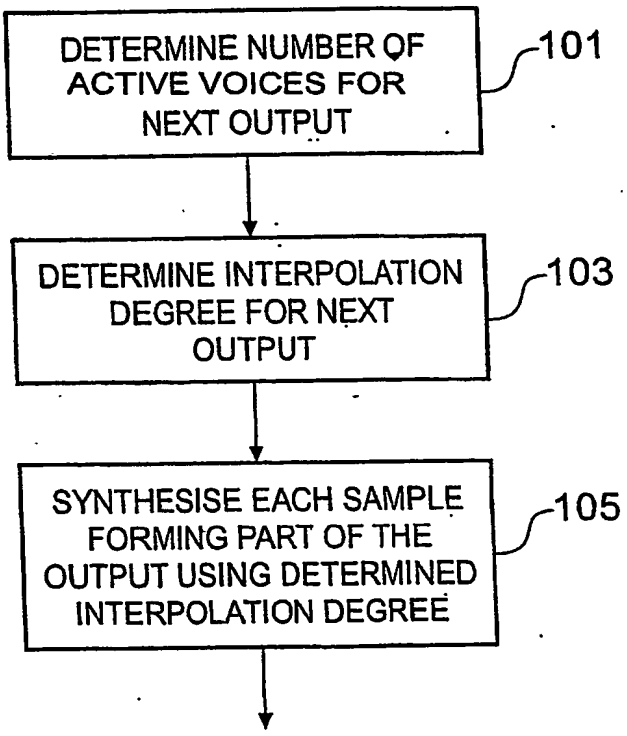

Fig. 2

ART 34 AMDT

NO. ACTIVE VOICES	INTERPOLATION DEGREE
1	11
2	11
3	11
4	11
5	11
6	11
7	11
8	11
9	11
10	10
11	9
12	8
13	7
14	7
15	6
16	6
17	5
18	5
19	5
20	5
21	4
22	4
23	4
24	4

Fig. 4

NO. ACTIVE VOICES	INTERPOLATION DEGREE
1	11
2	11
3	11
4	10
5	10
6	10
7	9
8	9
9	9
10	8
11	8
12	8
13	7
14	7
15	7
16	6
17	6
18	6
19	5
20	5
21	5
22	4
23	4
24	4

Fig. 3

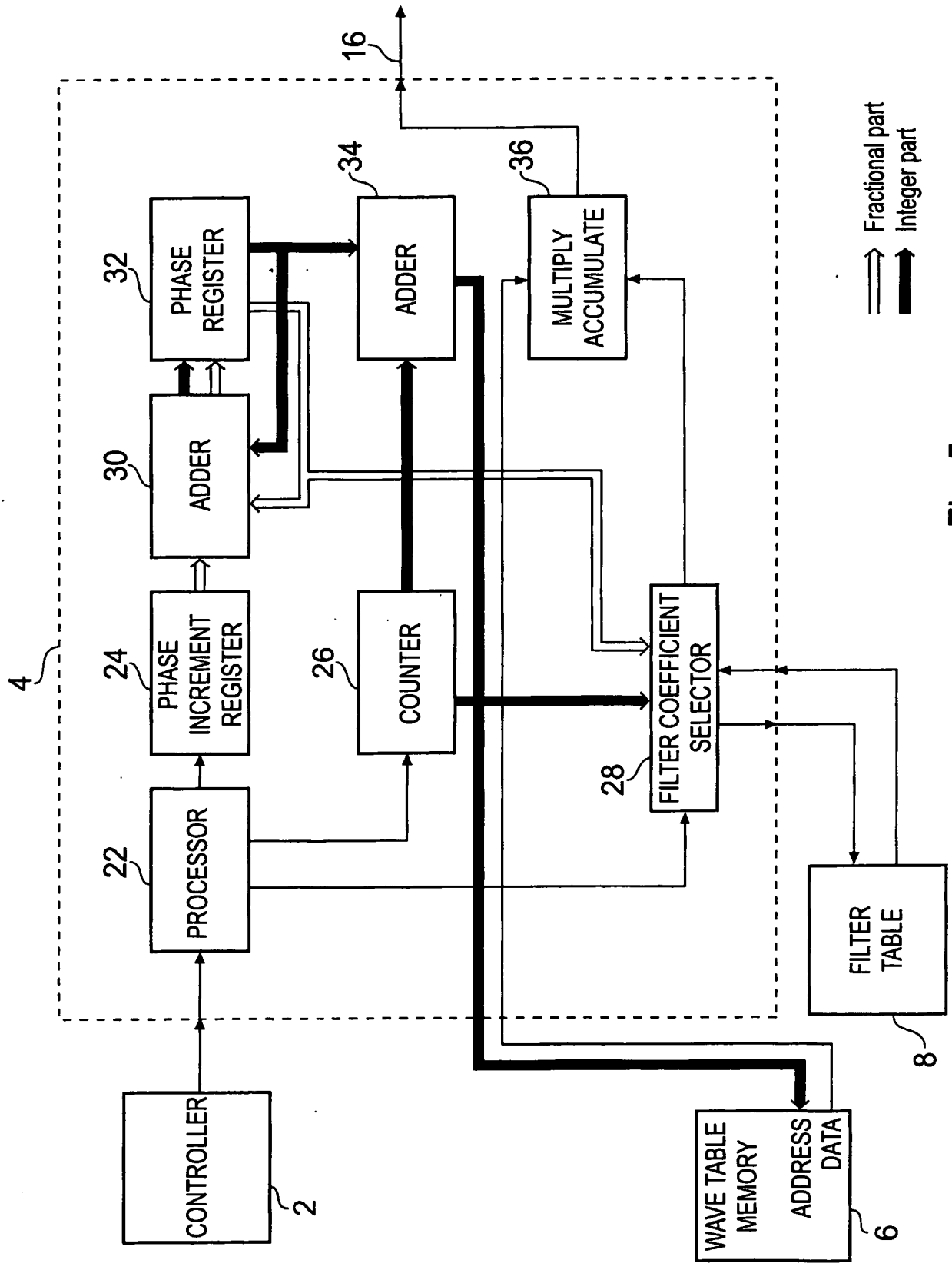
16
34
36
32
PHASE REGISTER
ADDER
MULTIPLY ACCUMULATE
Fractional part
Integer part
30
ADDER
4
24
PHASE INCREMENT REGISTER
26
COUNTER
FILTER COEFFICIENT SELECTOR
28
22
PROCESSOR
FILTER TABLE
8
CONTROLLER
2
WAVE TABLE MEMORY
ADDRESS
DATA
6

Fig. 5

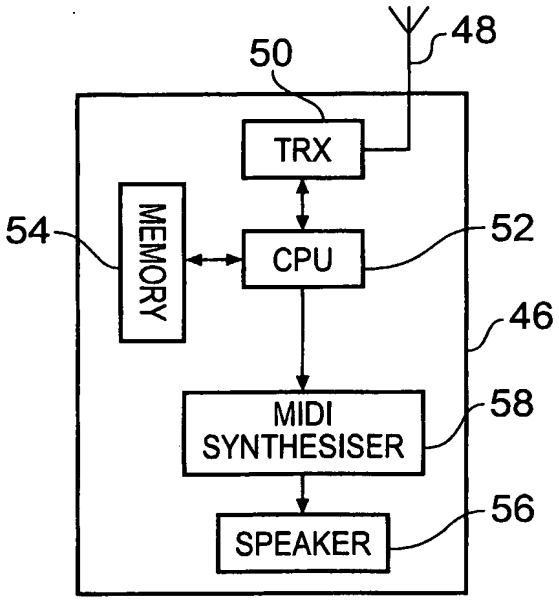

Fig. 6